

#1-1

Page 1 of 3 Pages

[X] Original [ ] Substitute [ ] Supplemental

Atty. Docket: PAIGE=1D

**Combined Declaration for Patent Application and Power of Attorney**

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**METHOD OF PREDICTING THE ABILITY OF COMPOUNDS TO MODULATE THE BIOLOGICAL ACTIVITY OF RECEPTORS**

the specification of which (check one)

- [ ] is attached hereto;  
 [X] was filed in the United States under 35 U.S.C. §111 on October 28, 1999, as  
 U.S. Appl. No. 09/429,331 \*; or  
 [ ] was/will be filed in the U.S. under 35 U.S.C. §371 by entry into the U.S. national stage of an international  
 (PCT) application, PCT/\_\_\_\_\_; filed \_\_\_\_\_, entry requested on \_\_\_\_\_ \*;  
 national stage application received U.S. Appl. No. \_\_\_\_\_; §371/§102(c) date \_\_\_\_\_ \*  
 (\* if known)

and was amended on \_\_\_\_\_ (if applicable).

(include dates of amendments under PCT Art. 19 and 34 if PCT)

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above; and I acknowledge the duty to disclose to the Patent and Trademark Office (PTO) all information known by me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §§ 119 and 365 of any prior foreign application(s) for patent or inventor's certificate, or prior PCT application(s) designating a country other than the U.S., listed below with the "Ycs" box checked and have also identified below any such application having a filing date before that of the application on which priority is claimed:

_____ (Number)	_____ (Country)	_____ (Day Month Year Filed)	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
_____ (Number)	_____ (Country)	_____ (Day Month Year Filed)	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under 35 U.S.C. §120 of any prior U.S. non-provisional application(s) or prior PCT application(s) designating the U.S. listed below, or under §119(e) of any prior U.S. provisional applications listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in such U.S. or PCT application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the PTO all information as defined in 37 C.F.R. §1.56(a) which occurred between the filing date of the prior application and the national filing date of this application:

<u>PCT/US99/06664</u>	<u>26 March 1999</u>	<u>pending</u>
(Application No.)	(Day Month Year Filed)	(Status: patented, pending, abandoned)
<u>60/115,345</u>	<u>08 January 1999</u>	<u>abandoned</u>
(Application No.)	(Day Month Year Filed)	(Status: patented, pending, abandoned)
<u>60/009,656</u>	<u>09 September 1998</u>	<u>abandoned</u>
(Application No.)	(Day Month Year Filed)	(Status: patented, pending, abandoned)
<u>60/082,756</u>	<u>23 April 1998</u>	<u>abandoned</u>
(Application No.)	(Day Month Year Filed)	(Status: patented, pending, abandoned)

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

**All of the practitioners associated with Customer Number 001444**

Direct all correspondence to the address associated with Customer Number 001444; i.e.,

**BROWDY AND NEIMARK, P.L.L.C.**  
 624 Ninth Street, N.W.  
 Washington, D.C. 20001-5303  
 (202) 628-5197



Page 2 of 3 Pages

Atty. Docket: PAIGE=1D

Title: METHOD OF PREDICTING THE ABILITY OF COMPOUNDS TO MODULATE THE BIOLOGICAL ACTIVITY OF RECEPTORSU.S. Application filed 28 October 1999, Serial No. 09/429,331

PCT Application filed \_\_\_\_\_, Serial No. \_\_\_\_\_

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIRST INVENTOR Lisa A. PAIGE	INVENTOR'S SIGNATURE <i>Lisa A. Paige</i>	DATE 6/2/00
RESIDENT Rougemont, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 9414 Sawyer Road, Rougemont, North Carolina 27572		
FULL NAME OF SECOND JOINT INVENTOR Donald P. MCDONNELL	INVENTOR'S SIGNATURE	DATE
RESIDENT Durham, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS c/o Duke University Medical Center, Box 3813, Durham, North Carolina 27710		
FULL NAME OF THIRD JOINT INVENTOR Ching-Yi CHANG	INVENTOR'S SIGNATURE	DATE
RESIDENT Durham, North Carolina	CITIZENSHIP Taiwan	
POST OFFICE ADDRESS 6402-307 Monterrey Creek Drive, Durham, North Carolina 27713		
FULL NAME OF FOURTH JOINT INVENTOR John D. Norris	INVENTOR'S SIGNATURE	DATE
RESIDENT Raleigh, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 6309 Dry Fork Lane, Raleigh, North Carolina 27613		
FULL NAME OF FIFTH JOINT INVENTOR Paul T. HAMILTON	INVENTOR'S SIGNATURE <i>Paul T. Hamilton</i>	DATE 6/2/00
RESIDENT Cary, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 205 Muirwoods Drive, Cary, North Carolina 27513		
FULL NAME OF SIXTH JOINT INVENTOR Dana M. FOWLKES	INVENTOR'S SIGNATURE	DATE
RESIDENT Chapel Hill, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 2013 Damascus Church Road, Chapel Hill, North Carolina 27516		
FULL NAME OF SEVENTH JOINT INVENTOR Tom BARNETT	INVENTOR'S SIGNATURE <i>Thomas P. Barnett</i>	DATE 6/2/00
RESIDENT Chapel Hill, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 101 Barnehill Place, Chapel Hill, North Carolina 27514		

Page 3 of 3 Pages

Atty. Docket: PAIGE=1D

Title: METHOD OF PREDICTING THE ABILITY OF COMPOUNDS TO MODULATE THE BIOLOGICAL ACTIVITY OF RECEPTORSU.S. Application filed 28 October 1999 Serial No. 09/429,331

PCT Application filed \_\_\_\_\_ Serial No. \_\_\_\_\_

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FULL NAME OF FIRST INVENTOR Dale J. CHRISTIANSEN	INVENTOR'S SIGNATURE <i>Dale J. Christian</i>	DATE 06-02-2000
RESIDENT Apex, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 226 Mint Hill Drive, Apex, North Carolina 27502		
FULL NAME OF SECOND JOINT INVENTOR Benjamin BUEHRER	INVENTOR'S SIGNATURE <i>Benjamin Buehrer</i>	DATE 6-2-00
RESIDENT Durham, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 5504 Garrett Road, Durham, North Carolina 27707		

ALL INVENTORS MUST REVIEW APPLICATION AND DECLARATION BEFORE SIGNING. ALL ALTERATIONS MUST BE INITIALED AND DATED BY ALL INVENTORS PRIOR TO EXECUTION. NO ALTERATIONS CAN BE MADE AFTER THE DECLARATION IS SIGNED. ALL PAGES OF DECLARATION MUST BE SEEN BY ALL INVENTORS.

Page 1 of 3 Pages [X] Original [ ] Substitute [ ] Supplemental Any. Docker: PAIGE=)D

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[ ] was/will be filed in the U.S. under 35 U.S.C. §371 by entry into the U.S. national stage of an international (PCT) application, PCT/\_\_\_\_; filed \_\_\_\_\_, entry requested on \_\_\_\_\_; national stage application received U.S. Appl. No. \_\_\_\_\_; §371/§102(e) date \_\_\_\_\_ (\* if known)

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(Number)	(Country)	(Day Month Year Filed)	O YES	O NO

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60/115,345	08 January 1999	abandoned
(Application No.)	(Day Month Year Filed)	(Status: patented, pending, abandoned)
60/009,656	09 September 1998	abandoned
(Application No.)	(Day Month Year Filed)	(Status: patented, pending, abandoned)
60/082,756	23 April 1998	abandoned
(Application No.)	(Day Month Year Filed)	(Status: patented, pending, abandoned)

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

All of the practitioners associated with Customer Number 001444

Direct all correspondence to the address associated with Customer Number 001444, i.e.,

BROWDY AND NEIMARK, P.L.L.C.  
624 Ninth Street, N.W.  
Washington, D.C. 20001-5303  
(202) 628-5197

Page 1 of 3 Pages [X] Original [ ] Substitute [ ] Supplemental Any. Docket: PAIGE=)D

# Combined Declaration for Patent Application and Power of Attorney

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METHOD OF PREDICTING THE ABILITY OF COMPOUNDS TO MODULATE THE BIOLOGICAL ACTIVITY OF RECEPTORS

the specification of which (check one)

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 [X] was filed in the United States under 35 U.S.C. §111 on October 28, 1999, as U.S. Appl. No. 09/429,331 \*; or  
 [ ] was/will be filed in the U.S. under 35 U.S.C. §371 by entry into the U.S. national stage of an international (PCT) application, PCT/\_\_\_\_\_, filed \_\_\_\_\_, entry requested on \_\_\_\_\_, national stage application received U.S. Appl. No. \_\_\_\_\_; §371/§102(e) date \_\_\_\_\_ (\* if known)

and was amended on \_\_\_\_\_ (If applicable).  
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(Number)	(Country)	(Day Month Year Filed)	N YES	N NO

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(Application No.)	(Day Month Year Filed)	(Status: patented, pending, abandoned)
60/115,315	08 January 1999	abandoned
(Application No.)	(Day Month Year Filed)	(Status: patented, pending, abandoned)
60/009,656	09 September 1998	abandoned
(Application No.)	(Day Month Year Filed)	(Status: patented, pending, abandoned)
60/082,756	23 April 1998	abandoned
(Application No.)	(Day Month Year Filed)	(Status: patented, pending, abandoned)

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

All of the practitioners associated with Customer Number 001444

Direct all correspondence to the address associated with Customer Number 001444, i.e.,

BROWDY AND NEWMARK, P.L.L.C.  
 624 Ninth Street, N.W.  
 Washington, D.C. 20001-5303  
 (202) 628-5197



6-05-2000 10:57AM FROM MCDONNELL 9196817139

JENKINS &amp; WILSON ATT. Fax: 9194190383

Jun 2 2000 16:34 P.06

P.2

Jun-02-2000 02:45PM From: BRADY BEHARR

2827373528

T-082 P.005/006 F-007

Page 2 of 3 Pages

Atty. Docket PAGE=1D

Title: METHOD OF PREDICTING THE ABILITY OF COMPOUNDS TO MODULATE THE BIOLOGICAL ACTIVITY OF RECEPTORSU.S. Application filed 24 October 1999, Serial No. 09/479,331

PCT Application filed \_\_\_\_\_, Serial No. \_\_\_\_\_

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that these statements were made with the knowledge that willful false statements are the like to made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIRST INVENTOR <b>LEE A. PAGE</b>	INVENTOR'S SIGNATURE	DATE
RESIDENT Rougemont, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 5414 Sawyer Road, Rougemont, North Carolina 27573		
FULL NAME OF SECOND JOINT INVENTOR <b>Donald P. McDONNELL</b>	INVENTOR'S SIGNATURE <i>Donald P. McDONNELL</i>	DATE June 5, 00
RESIDENT Durham, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS c/o Duke University Medical Center, Box 3813, Durham, North Carolina 27710		
FULL NAME OF THIRD JOINT INVENTOR <b>CHUNG-YI CHANG</b>	INVENTOR'S SIGNATURE <i>Chung-yi Chang</i>	DATE June 5, 00
RESIDENT Durham, North Carolina	CITIZENSHIP Taiwan	
POST OFFICE ADDRESS 6402-307 Monticrey Creek Drive, Durham, North Carolina 27713		
FULL NAME OF FOURTH JOINT INVENTOR <b>John D. Norris</b>	INVENTOR'S SIGNATURE <i>John D. Norris</i>	DATE June 5, 00
RESIDENT Raleigh, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 6309 Dry Fork Lane, Raleigh, North Carolina 27613		
FULL NAME OF FIFTH JOINT INVENTOR <b>Paul T. HAMILTON</b>	INVENTOR'S SIGNATURE	DATE
RESIDENT Cary, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 305 Mainwood Drive, Cary, North Carolina 27513		
FULL NAME OF SIXTH JOINT INVENTOR <b>DENNIS M. FOWLER</b>	INVENTOR'S SIGNATURE	DATE
RESIDENT Chapel Hill, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 2015 Damascus Church Road, Chapel Hill, North Carolina 27316		
FULL NAME OF SEVENTH JOINT INVENTOR <b>Tom BARNETT</b>	INVENTOR'S SIGNATURE	DATE
RESIDENT Chapel Hill, North Carolina	CITIZENSHIP U.S.	
POST OFFICE ADDRESS 101 Barnhill Place, Chapel Hill, North Carolina 27514		

6-05-2000 10:57AM FROM MCDONELL 9196817139

JENKINS &amp; WILSON H.L. Fax: 9194190383

JUN 2 2000 16:35

P.07

P.3

JUN-02-2000 02:45pm From: BRONDI NEIMARK

2027373528

T-002 P.005/006 F-407

Page 3 of 3 Pages

Any. Docker PAIGE=10

Title: METHOD OF PREDICTING THE ABILITY OF COMPOUNDS TO MODULATE THE BIOLOGICAL ACTIVITY OF RECEPTORSU.S. Application Filed 28 October 1999, Serial No. 09/429,391

PCT Application Filed \_\_\_\_\_, Serial No. \_\_\_\_\_

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that these statements were made with the knowledge that willful false statements and the like are made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIRST INVENTOR Dale I. CHRISTIANSEN		INVENTOR'S SIGNATURE	DATE
RESIDENT Apex, North Carolina		CITIZENSHIP U.S.	
POST OFFICE ADDRESS 226 Mine Hill Drive, Apex, North Carolina 27502			
FULL NAME OF SECOND JOINT INVENTOR Benjamin BLUMBERG		INVENTOR'S SIGNATURE	DATE
RESIDENT Durham, North Carolina		CITIZENSHIP U.S.	
POST OFFICE ADDRESS 5504 Garner Road, Durham, North Carolina 27707			

ALL INVENTORS MUST SIGNIFY APPLICATION AND FILED IN THE OFFICE OF THE COMMISSIONER OF PATENTS AND TRADEMARKS. ALL APPLICATIONS MUST BE INITIALED AND DATED BY ALL INVENTORS PRIOR TO EXECUTION. NO ALTERATIONS CAN BE MADE AFTER THE DECLARATION IS SIGNED. ALL COPIES OF DECLARATION MUST BE SIGNED BY ALL INVENTORS.

Page 2 of 3 Pages

Title: METHOD OF PREDICTING THE ABILITY OF COMPOUNDS TO MODULATE THE BIOLOGICAL ACTIVITY OF RECEPTORS

Any. Docker: PAIGE-ID

U.S. Application filed 28 October 1999 Serial No. 09/429 331

PCT Application filed \_\_\_\_\_ Serial No. \_\_\_\_\_

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §100] and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIRST INVENTOR Lisa A. PAIGE		INVENTOR'S SIGNATURE <i>Lisa Paige</i>	DATE 6/2/00
RESIDENT Rougemont, North Carolina		CITIZENSHIP U.S.	
POST OFFICE ADDRESS 9414 Sawyer Road, Rougemont, North Carolina 27572			
FULL NAME OF SECOND JOINT INVENTOR Donald P. MCDONNELL		INVENTOR'S SIGNATURE	DATE
RESIDENT Durham, North Carolina		CITIZENSHIP U.S.	
POST OFFICE ADDRESS c/o Duke University Medical Center, Box 3813, Durham, North Carolina 27710			
FULL NAME OF THIRD JOINT INVENTOR Ching-Yi CHANG		INVENTOR'S SIGNATURE	DATE
RESIDENT Durham, North Carolina		CITIZENSHIP Taiwan	
POST OFFICE ADDRESS 6402-307 Monterrey Creek Drive, Durham, North Carolina 27713			
FULL NAME OF FOURTH JOINT INVENTOR John D. Norris		INVENTOR'S SIGNATURE	DATE
RESIDENT Raleigh, North Carolina		CITIZENSHIP U.S.	
POST OFFICE ADDRESS 6309 Dry Fork Lane, Raleigh, North Carolina 27613			
FULL NAME OF FIFTH JOINT INVENTOR Paul T. HAMILTON		INVENTOR'S SIGNATURE <i>Paul T. Hamilton</i>	DATE 6/2/00
RESIDENT Cary, North Carolina		CITIZENSHIP U.S.	
POST OFFICE ADDRESS 205 Mulrwoods Drive, Cary, North Carolina 27513			
FULL NAME OF SIXTH JOINT INVENTOR Dana M. FOWLKES		INVENTOR'S SIGNATURE <i>Dana M. Fowlkes</i>	DATE 6/5/00
RESIDENT Chapel Hill, North Carolina		CITIZENSHIP U.S.	
POST OFFICE ADDRESS 2013 Damascus Church Road, Chapel Hill, North Carolina 27516			
FULL NAME OF SEVENTH JOINT INVENTOR Tom BARNETT		INVENTOR'S SIGNATURE <i>Tom Barnett</i>	DATE 6/2/00
RESIDENT Chapel Hill, North Carolina		CITIZENSHIP U.S.	
POST OFFICE ADDRESS 101 Barnhill Place, Chapel Hill, North Carolina 27514			



Jun-02-2000 01:36pm From-BROWDY NETWORK

2027373828

T-005 P.005/006 F-388

Page 3 of 3 Pages

Title: METHOD OF PREDICTING THE ABILITY OF COMPOUNDS TO MODULATE THE BIOLOGICAL ACTIVITY OF RECEPTORS

Atty. Docket: PAIGE-1D

U.S. Application filed 28 October 1999

Serial No. 09/429,331

PCT Application filed 01/28/2000

Serial No. 09/429,331

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FULL NAME OF FIRST INVENTOR Dale J. CHRISTIANSEN		INVENTOR'S SIGNATURE <i>Dale J. Christiansen</i>	DATE 06-02-2000
RESIDENT Apex, North Carolina		CITIZENSHIP U.S.	
POST OFFICE ADDRESS 226 Mint Hill Drive, Apex, North Carolina 27502			
FULL NAME OF SECOND JOINT INVENTOR Benjamin BUEHREK		INVENTOR'S SIGNATURE <i>Benjamin Buehrek</i>	DATE 6-2-00
RESIDENT Durham, North Carolina		CITIZENSHIP U.S.	
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PRINT NAME OF ALL INVENTORS